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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/972,407	10/05/2001	Shawn X. Gao	37422P012	3913	
8791 7	8791 7590 03/25/2004			EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR			LEE, PING		
	LOS ANGELES, CA 90025		ART UNIT	PAPER NUMBER	
			2644	7	
			DATE MAILED: 03/25/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
))	09/972,407	GAO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ping Lee	2644			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period versilized to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thir will apply and will expire SIX (6) MON , cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>20 March 2003</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any accomplished any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example.	epted or b) objected to drawing(s) be held in abeyantion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	application No received in this National Stage			
Allerter v. V.					
Attachment(s) 1) Notice of References Cited (PTO-892)	45 🗀 1-4	O			
 Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6. 	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 5-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 5-10, numerous equations have been specified in the claims. However, each and every term in the equations has not been defined.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-4, 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kohashi et al (US 4,586,194) in view of Birck et al (US 5,386,475).

Regarding claims 1-3 and 11-16, Kohashi et al (hereafter Kohashi) shows the steps of applying a testing signal, inserting a first attenuation (the attenuation is always present in the system), measuring the first output (Pu(t))), calculating a first transfer function (Pu(ω)), inserting a second attenuation (the second attenuation is always present in the system), measuring the second output ((Pv(t)), calculating a second transfer function ($Pv(\omega)$), combining the first and second transfer functions (Hc) and calculating a sound pressure level emitting by the transducer (by using Gv, the sound pressure level is calculated). Kohashi fails to explicitly disclose the nature of the impulse generator. Since Kohashi teaches a testing and measuring device using a general signal generator, one skilled in the art would have expected that almost any one could be used, as long as the nature of the signal will not damage the hearing of the tester. Birck et al (hereafter Birck) teaches a measuring device for hearing using broadband test signal (col. 3, line 53). Thus, it would have been obvious to one of ordinary skill in the art to modify Kohashi's method by using the broadband signal as taught in Birck in order to generate a testing signal.

Regarding claim 4, although not clearly shown, the first transfer function ($Pu(\omega)$) and the second transfer function ($Pv(\omega)$) includes amplifier transfer function, attenuator

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transfer function, an electrical-to-acoustic transfer function and an acoustic-to-electrical transfer function.

Allowable Subject Matter

- 6. Claims 5-10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 703-305-4865. The examiner can normally be reached on Monday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rrimary Examiner

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